IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No. 1998-028-25 DIV

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

Sir: This is a request for filing a

□ Continuation

application under 37 C.F.R. §1.60,

図 Divisional

of copending prior application Serial No. 08/510,046, filed on May 31, 1995 of MATTHEW T. SCHOLZ, ROBERT A. SCHERRER, NELDA M. MARECKI, YEN-LANE CHEN, IOAN K. BARKHAUS (Inventors) for BIOADHESIVE COMPOSITION AND PATCH (title of invention)

- 1. "Enclosed is a copy of the latest inventor-signed prior application, including a copy of the oath or Declaration showing the original signature or an indication it was signed. I hereby verify that the papers are a true copy of the latest signed prior application Serial No. 08/510,046, and further that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon."
- 2. ☐ A verified statement to establish Small Entity status under 37 CFR 1.9 and 1.27 ☐ is enclosed
 - was filed in prior application Serial No. _____ and such status is still proper and desired (37 CFR 1.28(a)).

DOCKET NO.: 1998-028-25 DIV

CLAIMS AS FILED, LESS ANY CLAIMS CANCELLED BY PRELIMINARY AMENDMENT AND/OR AMENDMENT BELOW

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	20 -20 =	-	x \$ 22 =	§ -
	INDEPENDENT	3 - 3 =		x \$ 80 ≈	s -
	MULTIPLE DEPENDENT CLAIMS + \$			+ \$260 =	s -
	BASIC			E	§ 770.00
			TOTAL OF ABOVE CAL	CULATIONS=	\$ 770.00
	Reduction by 5	0% for filing by Smal	l Entity .		\$ -
TOTAL					\$ 770.00

- The Commissioner is hereby authorized to charge any fees which may be required for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- 5. A check in the amount of \$770.00 is enclosed.
- 7. Amend the specification by inserting before the first line the sentence:

--This is a __ Continuation, XX Division, of application Serial No. 08/510,046 filed on May 31, 1995, pending, which is a XX Division of application Serial No. 07/842,222, filed on February 26, 1992, now abandoned, which is a XX Continuation of application Serial No. 07/607,863, filed on November 1, 1990, now abandoned, which is a XX Continuation-In-Part of application Serial No. 07/486,554, filed on February 27, 1990, now abandoned, which is a XX Continuation-In-Part of application Serial No. 07/431,664, filed on November 3, 1989, now abandoned.--

8. \square Drawing(s) are enclosed.

iÖ IT

M

ij

IJ

9. Priority of the following application(s) is claimed under 35 U.S.C. 120:

Application No.	Filing Date	Status
08/510,046	May 31, 1995	Pending
07/842,222	February 26, 1992	Abandoned
07/607,863	November 1, 1990	Abandoned
07/486,554	February 27, 1990	Abandoned
07/431,664	November 3, 1989	Abandoned

- 10. The prior application is assigned to: Minnesota Mining & Manufacturing, Co., P.O. Box 33427, St. Paul, Minnesota 551330-3427.
- 図 The Power of Attorney in the prior application is to one or more of the 11. following: Norman F. Oblon, Reg. No. 24,618; Marvin J. Spivak, Reg. No. 24,913; C. Irvin McClelland, Reg. No. 21,124, Gregory J. Maier, Reg. No. 25,599; Arthur I. Neustadt, Reg. No. 24,854; Richard D. Kelly, Reg. No. 27,757; James D. Hamilton, Reg. No. 28,421; Eckhard H. Kuesters, Reg. No. 28.870; Robert T. Pous, Reg. No. 29,099; Charles L. Gholz, Reg. No. 26,395; Vincent J. Sunderdick, Reg. No. 29,004; William E. Beaumont, Reg. No. 30,996; Steven B. Kelber, Reg. No. 30,073; Robert F. Gnuse, Reg. No. 27,295; Jean-Paul Lavalleye, Reg. No. 31,451; Stephen G. Baxter, Reg. No. 32,884; Martin M. Zoltick, Reg. No. 35,745; Robert W. Hahl, Reg. No. 33,893; Richard L. Treanor, Reg. No. 36,379; Steven P. Weihrouch, Reg. No. 32,829; John T. Goolkasian, Reg. No. 26,142; Marc R. Labgold, Reg. No. 34,651; William J. Healey, Reg. No. 36,160; Richard L. Chinn, Reg. No. 34,305; Steven E. Lipman, Reg. No. 30,011; Carl E. Schlier, Reg. No. 34,426; James J. Kulbaski, Reg. No. 34,648; Catherine B. Richardson, Reg. No. 39,007; Richard A. Neifeld, Reg. No. 35,299; J. Derek Mason, Reg. No. 35,270; and Jacques M. Dulin, Reg. No. 24,067, all of OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C., Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202.
 - a.

 The power appears in the original papers of the prior application.
 - b. Since the power does not appear in the original papers, a copy of the powers (2) in the prior application is enclosed.

-4-	DOCKET	NO.:	1998-028-2	25	DIV
T	DOCIDI	_ ,			

c.	Recognize	as	Associate	Attorney	and	address	all	future
	communica	tion	to:					

- 12. Preliminary Amendment is enclosed.
- 13. Also enclosed: White Advance Serial No. Card;
 Copy: Oath, Power of Attorney, and Petition, (executed, 4 pages)

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Charles L. Gholz

Attorney of Record

Registration No. 26,395

Alton D. Rollins Registration No. 34,083

Fourth Floor 1755 Jefferson Davis Highway Arlington, Virginia 22202 (703) 413-3000 (703) 413-2220 (fax) 1998-028-25DIV

IN RE APPLICATION OF

MATTHEW T. SCHOLZ, ROBERT A. SCHERRER,

NELDA M. MARECKI YEN-LANE CHEN AND JOAN K. BARKHAUS :

:GROUP ART UNIT: 1502

: (anticipated)

:

:

SERIAL NO: Divisional of

08/510,046

:EXAMINER: P. KULKOSKY

(anticipated)

FILED: Herewith

FOR:

BIOADHESIVE COMPOSITION

AND PATCH

REQUEST FOR EXPEDITED PROSECUTION

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

SIR:

The examiner is respectfully reminded that 37 CFR

1.607(b) provides in relevant part that:

When an applicant seeks an interference with a patent, examination of the application... shall be conducted with special dispatch within the Patent and Trademark Office.

Respectfully submitted,

Charles L. Gholz

Registration No. 26,395

Alton D. Rollins

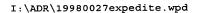
Registration No. 34,083 OBLON, SPIVAK, McCLELLAND,

MAIER & NEUSTADT, P.C.

Fourth Floor

1755 Jefferson Davis Highway Arlington, Virginia 22202

(703) 413-3000



1998-028-25 DIV

IN RE APPLICATION OF

MATTHEW T. SCHOLZ, : GROUP ART UNIT: 1502

ROBERT A. SCHERRER, : (anticipated)

NELDA M. MARECKI : YEN-LANE CHEN AND : JOAN K. BARKHAUS :

divisional of

SERIAL NO: 08/510,046 : EXAMINER: P. KULKOSKY

(anticipated)

FILED:

Herewith :

FOR:

BIOADHESIVE COMPOSITION

AND PATCH

37 CFR 1.607 REQUEST FOR AN INTERFERENCE WITH A PATENT

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

SIR:

I. <u>37 CFR 1.607(a)(1)</u>

The patent is U.S. patent No. 5,516,523 issued May 14, 1996 and naming Sonia J. Heiber, Charles D. Ebert, and Sirish C. Dave as inventors. The assignee at issue was TheraTech, Inc. of Salt Lake City, Utah.

II. 37 CFR 1.607(a)(2)

Applicants propose the following count, which is in the format approved by the Commissioner in Orikasa v. Oonishi, 10 USPQ2d 1999, 2003 (Comm'r 1990), and Davis v. Uke, 27 USPQ2d 1180, 1188 (Comm'r 1993):

Claim 1 in the Heiber et al. patent

Claims 125, 132, or 139 in the Scholz et al. patent application.

An extra copy of the proposed count is submitted herewith for the examiner's use in filling out the form PTO-850. In addition, as explained in section IX of this request, a proposed form PTO-850 is submitted herewith for the examiner's convenience.

III. <u>37 CFR 1.607(a)(3)</u>

All 24 claims in the Heiber et al. patent correspond to the proposed count. Indeed, the proposed count includes all of the independent claims in that patent.

IV. 37 CFR 1.607(a)(4)

Claims 125-144 presented in the 37 CFR 1.607(a)(4) amendment submitted herewith correspond to the proposed count. Indeed, the proposed count includes all of the independent claims in that group of claims.

While dependent claims 126-131, 133-138, and 140-144 do not correspond exactly to the proposed count, the applicants do not currently argue that any of those claims is drawn to a separate patentable invention within the meaning of 37 CFR 1.601(n).

V. <u>37 CFR 1.607(a)(5)</u>

The terms of the application claims identified as corresponding to the proposed count and not previously in the

application can be applied to the disclosure of the application as follows:

Terms of the Claims	Application to the Disclosure of the Application
125. A method for mucosally administering a macromolecular drug to the oral cavity comprising	Page 4 lines 13-22 and 34-37.
applying to the oral cavity mucosa a system comprising	Page 4 lines 34-37 and page 5 lines 3-6.
an inner drug/	Page 3 lines 24-25.
enhancer/	Page 14 lines 14-31.
polymer	Page 3 lines 14-20
layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere thereto when wet and	Page 3 line 25 - page 4 line 6 and page 4 lines 27-28.
an opposing surface in contact with and adhering to an overlying inert layer,	Page 4 lines 3-5
said inner layer containing an effective amount of a bile salt enhancer,	Page 14 lines 14-30.
from about 29 to 80% by weight of a hydrophilic polymer,	Page 3 lines 21-23. (100 parts of hydrophilic resin to 20-250 parts of hydrophobic resin.)
and an effective amount of a macromolecular drug.	Page 3 lines 24-25 and page 12 line 5 to page 13 line 21. Heparin (page 13 line

21. Heparin (page 13 line 19); insulin (page 13 lines.

proteins (page 14 lines 19-

5-6); and peptides and

21) are macromolecular drugs.

126. A method according to claim 125 wherein said bile salt enhancer is selected from the group consisting of sodium glycocholate, sodium taurocholate, and sodium tauro-24, 25-dihydrofusidate.

Page 14 lines 14-31.

127. A method according to claim 126 wherein said macromolecular drug is a member selected from the group consisting of polysaccharides, polypeptides, and proteins.

Page 14 lines 19-21; page 13 lines 3-6; insulin (page 13 line 5); and heparin (page 13 lines 10 and 19), a polysaccharide.

128. A method according to claim 127, wherein said hydrophilic polymer is a member selected from the group consisting of acrylic acid polymers, maleic acid polymers, itaconic acid polymers, citraconic acid polymers, methacrylic acid polymers;

Page 5 line 10 - page 12 line 8. Applicants' preferred hydrophilic polymer, Carbopol® 934 is well recognized as being a hydrophilic polymer. See Kirk-Othmer, Encyclopedia of Chemical Technology, Vol. 20 pp. 216-219. (John Wiley & Sons, 1982) (Attachment A).

copolymers of a member selected from the group consisting of acrylic acid and methacrylic acid with a member selected from the group consisting of methyl vinyl ether and lower alkyl methacrylates;

Page 5 lines 10-23

and acrylic acid polymers
cross-linked with a
polyalkenyl ether selected

Page 5 line 24 - page 6 line 8. line 8.

from the group consisting of an allyl ether of sucrose and

an allyl ether of pentaerythritol:

129. A method according to claim 128 wherein the macromolecular drug is a polysaccharide.

Page 13 lines 19-21. Heparin is a macromolecular polysaccharide. See claims 8 and 9 of the '523 patent.

130. A method according to claim 129 wherein the polysaccharide is heparin.

Page 13 lines 19-21.

131. A method according to claim 128 in the form of a film patch wherein said inert layer is a polymer which is nonadhesive to mucosal tissues and

Page 18 lines 9-34.

is substantially impermeable to the bile salt enhancer or the drug.

132. A method for mucosally administering a macromolecular drug to the oral cavity comprising

Page 4 lines 13-22 and 34-37.

applying to an oral cavity mucosa a system comprising

Page 4 lines 34-37 and page 5 lines 3-6.

an inner drug/ enhancer/ polymer/ Page 3 lines 24-25. Page 14 lines 14-31. Page 3 lines 14-20.

layer having one surface adapted to contact

Page 3 line 25 - page 4 line 6 and page 4 lines 27-28.

the mucosal tissue of the oral cavity and adhere thereto when wet and an opposing surface in contact with and adhering to an overlying inert layer

said inner layer containing from 0% to an effective amount by weight of a bile salt enhancer,

about 29 to 80% by weight of a hydrophilic polymer, and

an effective amount of a macromolecular drug.

133. A method according to claim 132 wherein the bile salt enhancer is sodium taurocholate.

134. A method according to claim 133 wherein said macromolecular drug is a member selected from the group consisting of polysaccharides, polypeptides, and

proteins.

135. A method according to claim 134 wherein said hydrophilic polymer is a member selected from the group consisting of acrylic acid polymers,

methacrylic acid polymers,

Page 14 lines 14-30.

Page 3 lines 21-23 (100 parts hydrophilic polymer to 20-250 parts hydrophobic polymer).

Page 3 lines 24-25 and page 12 line 5 to page 13 line 21.

Page 14 lines 14-21.

Page 14 lines 19-21; page 13 lines 3-6; and insulin and heparin.

Page 5 line 10 - page 12 line 8. Applicants' preferred hydrophilic polymer, Carbopol® 934 is well recognized as a hydrophilic polymer. See Attachment A.

copolymers of acrylic acid with a member selected from the group consisting of methyl vinyl ether and lower alkyl methacrylates,

methacrylic acid copolymers with a member selected from the group consisting of methyl vinyl ether and lower alkyl methacrylates,

Page 5 lines 17-22.

and polymers of acrylic acid Page 5 lines 24-34 cross-linked with a polyalkenyl polyether.

136. A method according to claim 135 wherein the macromolecular drug is a polysaccharide.

Page 13 lines 19-21.

137. A method according to claim 136 wherein the polysaccharide is heparin.

Page 13 lines 19-21.

138. A method according to claim 135 in the form of a film patch wherein said inert layer is a polymer which is nonadhesive to mucosal tissues and is substantially impermeable to the bile salt enhancer or drug.

Page 18 lines 9-34.

139. A method for mucosally administering a macromolecular drug to the oral cavity comprising

Page 4 lines 13-22 and 34-37.

applying to an oral cavity mucosa a system comprising Page 4 lines 34-37 and page 5 lines 3-6.

an inner drug/

polymer

layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere thereto when wet and an opposing surface in contact with and adhering to an overlying inert layer,

said inner layer containing from about 29 to about 80% of weight of a hydrophilic polymer

and an effective amount of a macromolecular drug.

140. A method according to claim 139 wherein the macromolecular drug is a member selected from the group consisting of polysaccharides, peptides, and proteins.

141. A method according to claim 140 wherein said hydrophilic polymer is a member selected from the group consisting of polyacrylic acid, polymethacrylic acid, copolymers of acrylic acid with a member selected from the group consisting of methyl vinyl ether and lower alkyl methacrylates,

Page 3 lines 24-25.

Page 3 lines 14-20

Page 3 line 25 - page 4 lines 6 and 27-28.

Page 3 lines 21-23.

Page 3 lines 24-25 and page 12 line 5 to page 13 line 21. Heparin (page 13 line 19); insulin (page 13 lines 5-6); and peptides and proteins (page 14 lines 19-21) are macromolecular drugs.

Page 14 lines 19-21; page 13 lines 3-6; page 13 line 5 (insulin); and page 13 lines 10 and 19 (heparin).

Page 5 line 10 - page 12 line 8.

copolymers of methacrylic acid with a member selected from the group consisting of methyl vinyl ether and alkyl methacrylates,

and polymers of acrylic acid cross-linked with a polyalkenyl polyether.

142. A method according to claim 141 wherein the macromolecular drug is a polysaccharide.

Page 13 lines 10 and 19 (heparin).

143. A method according to claim 142 wherein the polysaccaride is heparin.

Page 13 lines 10 and 19.

144. A method according to claim 139 wherein the macromolecular drug is heparin, and

Page 13 lines 10 and 19.

the hydrophilic polymer is a linear polyacrylic acid resin cross-linked with a member selected from the group consisting of an allyl ether of sucrose and an allyl ether of pentaerythritol.

Page 5 line 24 - page 6 line 8.

VI. <u>37 CFR 1.607(a)(6)</u>

37 CFR 1.607(a)(6) is irrelevant since this request and the accompanying 37 CFR 1.607(a)(4) amendment are being

submitted prior to one year from the date on which the Heibert et al. patent was granted.

VII. REQUEST FOR THE BENEFIT OF THE FILING DATE OF APPLICANTS' PRIORITY APPLICATIONS

Applicants claim priority under 35 USC 120 based upon application SN 08/510,046 filed on May 31, 1995, 07/842,222, filed on February 26, 1992, 07/607,863 filed on November 01, 1990, 07/486,554 filed on February 27, 1990, and 07/431,664 filed on November 03, 1989. Applicants are entitled to the benefit of the filing dates of their earlier applications for interference purposes if the count reads on at least one adequately disclosed embodiment in the earlier application. Assuming that the examiner recommends to the board applicants proposed count, applicants clearly meet that standard. That this is so is demonstrated in the following table, which reads the terms of the count on their earlier applications.

Terms of the Count

A method of mucosally administering a macromolecular drug to the oral cavity comprising

applying to an oral cavity
mucosa a system comprising
an inner drug/

Application of the Terms of the Count to the Disclosure of the 510,046 Application

Page 4 lines 13-22 and 34-37.

Page 4 lines 34-37 and page 5 lines 3-6. Page 3 lines 24-25.

 $^{^{1}\}underline{\text{Weil}}$ v. Fritz, 572 F.2d 856, 865-66 n. 16, 196 USPQ 600, 608 n. 16 (CCPA 1978).

an inner drug/

enhancer/

polymer

Page 14 lines 14-31. enhancer/ Page 3 lines 14-31. polymer/ layer having one surface in Page 3 line 25 - page 4 contact with and adhering to lines 6, 27, and 28. the mucosal tissue of the oral cavity and an opposing surface in contact with and adhering to an overlying inert layer said inner layer containing Page 14 lines 14-30. from about two to sixty percent by weight of a bile salt enhancer, Page 3 lines 21-23 (100 five to sixty five percent parts of hydrophilic polymer by weight of a hydrophilic to 20-250 parts of polymer and hydrophobic polymer). Page 3 lines 24-25 and page an effective amount of a 12 line 5 to page 13 line macromolecular drug having a 21. Heparin (page 13 line molecular weight of at least 19); insulin (page 13 lines 500 daltons. 5-6); and peptides and proteins (page 14 lines 19-21) are macromolecular drugs. or A method for mucosally Page 4 lines 13-22 and 34-37. administering a macromolecular drug to the oral cavity comprising applying to the oral Page 4 lines 34-37 and page 5 lines 3-6. cavity mucosa a system comprising

Page 3 lines 24-25.

Page 14 lines 14-31.

Page 3 lines 14-20

layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere thereto when wet and

Page 3 line 25 - page 4 line 6 and page 4 lines 27-28.

an opposing surface in contact with and adhering to an overlying inert layer,

Page 4 lines 3-5

said inner layer containing an effective amount of bile salt enhancer, Page 14 lines 14-30.

from about 29 to 80% by weight of a hydrophilic polymer

Page 3 lines 21-23. (100 parts of hydrophilic resin to 20-250 parts of hydrophobic resin).

and an effective amount of a macromolecular drug.

Page 3 lines 24-25 and page 12 line 5 to page 13 line 21. Heparin (page 13 line 19); insulin (page 13 lines 5-6); and peptides and proteins (page 14 lines 19-21) are macromolecular drugs.

or

A method for mucosally administering a macromolecular drug to the oral cavity comprising

Page 4 lines 13-22 and 34-37.

applying to an oral cavity mucosa a system comprising

Page 4 lines 34-37 and page 5 lines 3-6.

an inner drug/ enhancer/ polymer/ Page 3 lines 24-25. Page 14 lines 14-31. Page 3 lines 14-20.

layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere thereto when wet and an opposing surface in contact with and adhering to an overlying inert layer

Page 3 line 25 - page 4 line 6 and page 4 lines 27-28.

Page 14 lines 14-30

said inner layer containing from 0% to an effective amount by weight of a bile salt enhancer,

about 29 to 80% by weight of a hydrophilic polymer, and

an effective amount of a macromolecular drug.

139. A method for mucosally administering a macromolecular drug to the oral cavity comprising

applying to an oral cavity mucosa a system comprising

an inner drug/

polymer

layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere thereto when wet and an opposing surface in contact with and adhering to an overlying inert layer,

said inner layer containing from about 29 to about 80% of weight of a hydrophilic polymer

and an effective amount of a macromolecular drug.

Page 3 lines 21-23 (100 parts hydrophilic polymer to 20-250 parts hydrophobic polymer).

Page 3 lines 24-25 and page 12 line 5 to page 13 line 21.

Page 4 lines 13-22 and 34-37.

Page 4 lines 34-37 and page 5 lines 3-6.

Page 3 lines 24-25.

Page 3 lines 14-20

Page 3 line 25 - page 4 lines 6 and 27-28.

Page 3 lines 21-23.

Page 3 lines 24-25 and page 12 line 5 to page 13 line 21. Heparin (page 13 line 19); insulin (page 13 lines 5-6); and peptides and proteins (page 14 lines 19-21) are macromolecular drugs.

Since applicants' application is a straight continuation or division of the disclosures of application serial Nos. 08/510,046, 07/842,222, and 07/607,863, the disclosures of applicants' application is identical to the disclosures of those applications.

Application S.N. 431,664 discloses the hydrophilic polymer limitations of each of the alternative portions of the count at page 1 lines 2-28; the penetration enhancers at page 12 line 27 to page 13 line 7, particularly page 13 lines 2-5; and the macromolecular drug at page 10 line 20 to page 12 line 30 (including heparin, insulin, and human or animal growth hormones).

Example 13 at pages 26-27 of the 431,664 application describes patches containing 45% Carbopol® 910, a hydrophilic polymer, and 15% morphine sulfate, a macromolecular drug (molecular weight 669 daltons).

Application S.N. 486,554 carries forward the above disclosures from the 431,664 application at page 3 lines 8-34, page 5 line 4 to page 6 line 14, page 11 line 1 to page 12 line 33, page 13 lines 6-23, and Example 13 at pages 25-26.

VIII. <u>37 CFR 1.608</u>

37 CFR 1.608 is irrelevant since the effective filing date of this application precedes the effective filing date of the Heider et al. patent.

IX. SUBMISSION OF PROPOSED FORM PTO-850

Submitted herewith for the convenience of the examiner is a proposed form PTO-850.

Respectfully submitted,

Charles L. Gholz

Registration No. 26,395

Alton D. Rollins

Registration No. 34,083 OBLON, SPIVAK, McCLELLAND,

MAIER & NEUSTADT, P.C.

Fourth Floor

1755 Jefferson Davis Highway Arlington, Virginia 22202

Tel: (703) 413-3000 Fax: (703) 413-2220

I:\CLG\19980028\37cfr1607.Request.wpd

ACCORDED.

I:\ADR\19980028PTO850.WPD

INTERFERENCE-INITIAL MEMORANDUM

EXAMINERS INSTRUCTIONS - This form need not be typewritten. Complete the items below and forward to the Group Clerk with all files including those benefit of which has been accorded. The parties need not be listed in any specific order. Use a separate form for each count.

	(See MPEP 2309.02)						
	BOARD OF PATENT APPEALS AND INTERFERENCES: An interference is found to exist between the following cases:						
		This is count	<u>1</u> of <u>1</u> cou	nt(s)			
	1. NAME	SERIAL NO.	FILING D	ATE	PATENT NO., IF ANY		
	Heiber et al.	243,415	Ma	ıy 16, 1994	5,516,523		
	The claims of this party which co	rrespond to this count are:	The claims of	The claims of this party which <u>do not</u> correspond to this count are: NONE			
	*Accorded benefit of: COUNTRY	SERIAL NO.	FILING DA	ATE PATI	ENT NO., IF ANY		
	USA	027,508	Febru	ıary 22, 1993	5,346,701		
	2. NAME	SERIAL NO.	FILING D	ATE	PATENT NO., IF ANY		
Л П	Scholz et al.	Not yet assigned	Ma	ıy 14, 1997	NONE		
	The claims of this party which co	rrespond to this count are: 25-144	The claims of	f this party which <u>do not</u> NO	correspond to this count are: NE		
	*Accorded benefit of: COUNTRY	SERIAL NO.	FILING DA	ATE PATI	ENT NO., IF ANY		
	USA	510,046	Ma	y 31, 1995			
	USA .	842,222	Febru	ıary 26, 1992			
ī	USA	607,863	Noven	nber 01, 1990			
16.17 17 18 fb.	USA	486,554		ıary 27, 1990			
	USA	431,664		nber 03, 1989			
1 2	3. NAME	SERIAL NO.	FILING D		PATENT NO., IF ANY		
	The claims of this party which co	rrespond to this count are:	The claims of this party which do not correspond to this count are:				
-	*Accorded benefit of: COUNTRY	SERIAL NO.	FILING DA	ATE PATI	ENT NO., IF ANY		
Ī							
Ī							
A	necessary):	the same as this count, it should be circ	led above. If not,	type the count in this sp	ace (attach additional sheet if		
		of each application the benefit of which is	s intended to be acc	corded must be listed. It	is not sufficient to merely list the earlie		
ٳ		RY EXAMINER		TELEPHONE NO	D. ART UNIT		
	NOTE: FORWARD ALL FILES INCLUD	ING THOSE BENEFIT OF WHICH IS I	BEING	GROUP DIRECTOR S	IGNATURE (if required)		





ì		J					
PTO-850-(Rev. 09-22-97) (OSMMN version) Count #							
INTERFERENCE-INITIAL MEMORANDUM BOARD OF PATENT APPEALS AND INTERFERENCES: An interference is found to exist between the following cases: This interference involves _2 Parties							
			e the items below and forward to the listed in any specific order. Use				
BOARD OF	PATENT APPEALS AND	INTERFERENCES: An interfe	erence is found to exist between the	ne following cases:			
1. PARTY	APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY			
Heiber et al.	243,415	May 16, 1994	5,516,523	May 14, 1996			
If application has been	n patented, have maintenan	ce fees been paid? XYes N	o _ Maintenance Fees not due	yet			
	ty which correspond to this ty which <u>do not</u> correspond		•				
*Accorded the benefit COUNTRY	t of: APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	SSUE DATE, IF ANY			
USA	027,508	February 22, 1993	5,346,701	Sep 13, 1994			
2. PARTY Scholz et al.	APPLICATION NO. 08/855,933	FILING DATE May 14, 1997	PATENT NO., IF ANY NONE	ISSUE DATE, IF ANY			
If application has been patented, have maintenance fees been paid?YesNoWaintenance Fees not due yet							
The claims of this par count are: NONE	ty which correspond to this	count are: 125-150 (allowable)	The claims of this party which do	not correspond to this			
*Accorded the benefit COUNTRY	*Accorded the benefit of: COUNTRY APPLICATION NO. FILING DATE PATENT NO., IF ANY ISSUE DATE, IF ANY						

*Accorded the be COUNTRY	enefit of: APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY
USA	510,046	May 31, 1995	5,750,134	5/12/1998
USA	842,222	February 26, 1992		
USA	607,863	November 01, 1990		
USA	486,554	February 27, 1990		
USA	431,664	November 03, 1989		

CLAIM 1 OF THE COUNT

Claim 1 in the Heiber et al. patent

OR

Claims 125, 132, or 139 in the Scholz et al. patent application.

Claim 1 of the Hieber et al. patent consists of the following:

A method of mucosally administering a macromolecular drug to the oral cavity comprising applying to an oral cavity mucosa a system comprising an inner drug/enhancer/polymer/ layer having one surface in contact with and adhering to the mucosal tissue of the oral cavity and an opposing surface in contact with and adhering to an overlying inert layer said inner layer containing from about two to sixty percent by weight of a bile salt enhancer, five to sixty five percent by weight of a hydrophilic polymer and an effective amount of a macromolecular drug having a molecular weight of at least 500 daltons.

Claims 125, 132, or 139 in the Scholz et al. patent application consist of the following:

125. A method for mucosally administering a macromolecular drug to the oral cavity comprising applying to the oral cavity mucosa a system comprising an inner drug/enhancer/polymer layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere

thereto when wet and an opposing surface in contact with and adhering to an overlying inert layer, said inner layer containing an effective amount of a bile salt enhancer, from about 29 to 80% by weight of a hydrophilic polymer, and an effective amount of a macromolecular drug.

- macromolecular drug to the oral cavity comprising applying to an oral cavity mucosa a system comprising an inner drug/enhancer/polymer/layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere thereto when wet and an opposing surface in contact with and adhering to an overlying inert layer said inner layer containing from 0% to an effective amount by weight of a bile salt enhancer, about 29 to 80% by weight of a hydrophilic polymer, and an effective amount of a macromolecular drug.
- macromolecular drug to the oral cavity comprising applying to an oral cavity mucosa a system comprising an inner drug/polymer layer having one surface adapted to contact the mucosal tissue of the oral cavity and adhere thereto when wet and an opposing surface in contact with and adhering to an overlying inert layer, said inner layer containing from about 29 to about 80% of weight of a hydrophilic polymer and an effective amount of a macromolecular drug.

I:\CLG\19980028\count